



DMX CONTROLLER FOR LED TUBE User Manual



Led controller can be controlled by DMX 512 console. Our LED color changing tube / wall combined with the controller makes colorful and dynamic light scenery effects. It is widely applied to entertainment hall, stage, social club and outdoor building decoration.

A: Specification:

3. Weight: 1.14 kg
4. Size: 210×125.2×44.2(mm)
5. Communication mode: Proprietary data protocol/DMX-512
6. Power input: DC9V-12V/500 mA
7. 4-pin female connector for signal output
8. 3-pin connector for DMX512 connection
9. 1000 separate DMX addressing for each channel

B:MODE/SETUP/UP/DOWN four function sets

1. Press "MODE" button to adjust accordingly
BLACK, STATIC RED, STATIC GREEN, STATIC YELLOW, STATIC BLUE, STATIC PURPLE,
STATIC CYAN, STATIC WHITE, COLOR CHANGE, SLOW FLOW 1, SLOW FLOW 2, ROLL CHASE
1, ROLL CHASE 2, MULTICOLOR, FAST FLOW 1, FAST FLOW 2, 2 COLOR CHASE, 2 COLOR
FLOW, COLOR FADE, AUTO RUN, SYSTEM MODE

2. Press "SETUP" button to adjust accordingly

RxxGxxBxx Select "R" "G" "B" Dimming by pressing "UP", "DOWN" key.

RUN SPEED: 1-100

FLASH FREQ: 1-100

COLOR SORT: select 2 COLOR FLOW or 2 COLOR CHASE (range: 0-20)

UNIT TIMES: running times for each type of display under auto-run mode

SET ADDRESS: [YES] : Please set sequential addressing for all color-changing tube/wall light
(Reset address while startup for the first time, amended array order, and quantity minus or
plus so as to get correct display) The addressing would be stored in color-changing
tube/wall light once it is set

- address-setting method for sort order connection

First set start- address as "1", then set color-changing /wall address

- address-setting method for bus connection

Every branch should be set its separate address.

For example:

1st branch: Set the start- address "1"

2nd branch: set the start- address value equitable to " tube/wall light amount for the first
branch"

3rd branch: set the start-address value equitable to " tube/wall light amount for the first
branch and the second branch"

[NO]: no address

DMX Channel: [0]: No DMX controlling, controlled by keyboard

[1-512]: controlled by DMX, the starting channel as its value

TUBE AMOUNT: tube/wall light controller amount setting (1-1000 pcs, 1M/1 pcs)

For example:

One DMX controller control 2 pcs led controller. Set the first controller's DMX address
value as "1", it would occupy 1-4 channel, then the second one's DMX address value
should be set as "5", and it would occupy 5-8 channel.

3. UP: plus parameter

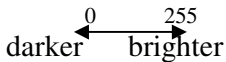
4. Down: minus parameter

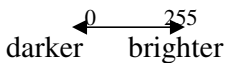
5. Enter DMX mode with DMX signal and receive 4 channel DMX signals, adjust the starting address

(1-512) by pressing “UP” or “DOWN” button.

1>: The first channel(0~11) can control output for Red, Green and Blue

The second DMX channel control output for red ;

The third DMX ( or Green ;

The fourth DMX  for Blue :

2>: The first ch: control 20 types of displays as below ;

11-23: BLACK	132-143: SLOW FLOW 2
24-35: RED	144-155: ROLL CHASE 1
36-47: GREEN	156-167: ROLL CHASE 2
48-59: YELLOW	168-179: MULTI COLOR
60-71: BLUE	180-191: FAST FLOW 1
72-83: PURPLE	192-203: FAST FLOW 2
84-95: CYAN	204-215: 2 COLOR CHASE
96-107: WHITE	216-227: 2 COLOR FLOW
108-119: COLOR CHANGE	228-239: COLOR FADE
120-131: SLOW FLOW	240-255: AUTO RUN

The second DMX channel(0-255)controls speed

0: 1 step/min 255: 100 steps/sec

The third DMX channel(0-255) controls flash frequency

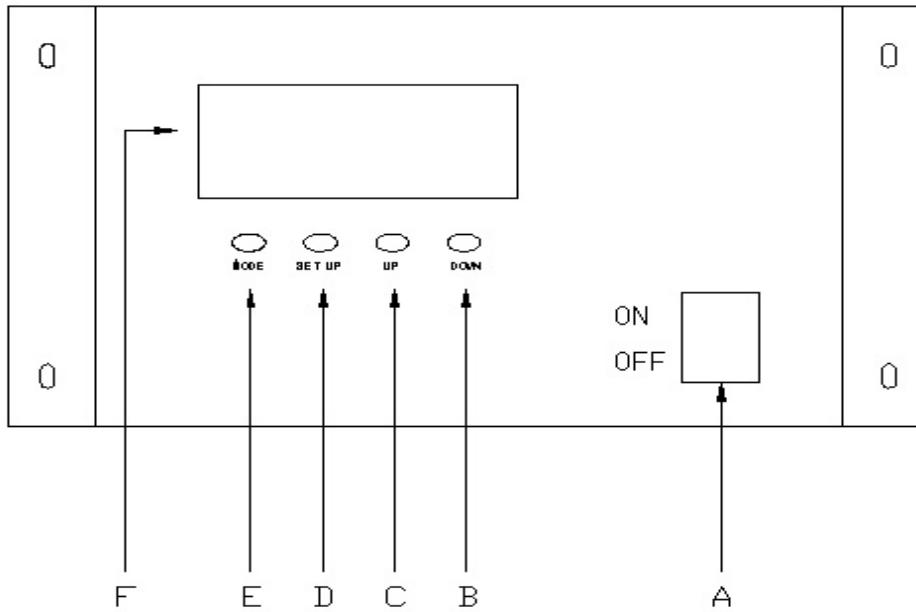
0: 1 Hz 255: 20 Hz

The fourth DMX channel (0-255) selects “ 2 color flow” or “ 2 color chase “

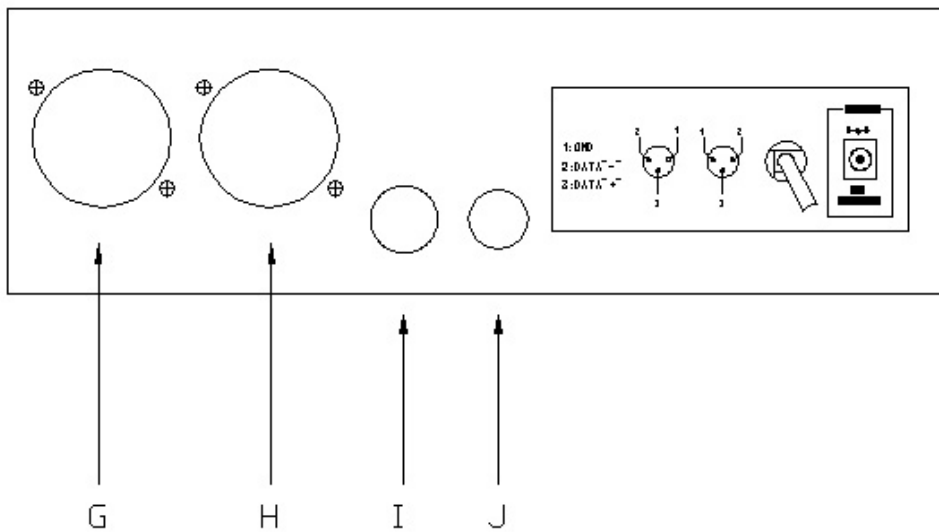
0-11: red + green	132-143: yellow + blue
12-23:red+ yellow	144-155: yellow+ purple
24-35: red + blue	156-167: yellow +cyan
36-47: red+ purple	168-179: yellow + white
48-59: red+ cyan	180-191: blue+ purple
60-71: red+ white	192-203: blue + cyan
72-83: green+ yellow	204-215: blue+ white
84-95: green + blue	216-227: purple+ cyan
96-107:green+ purple	228-239: purple+ white
108-119: green+ cyan	240-255: cyan+ white
120-131: green+ white	

C: led controller function structure

Front plant

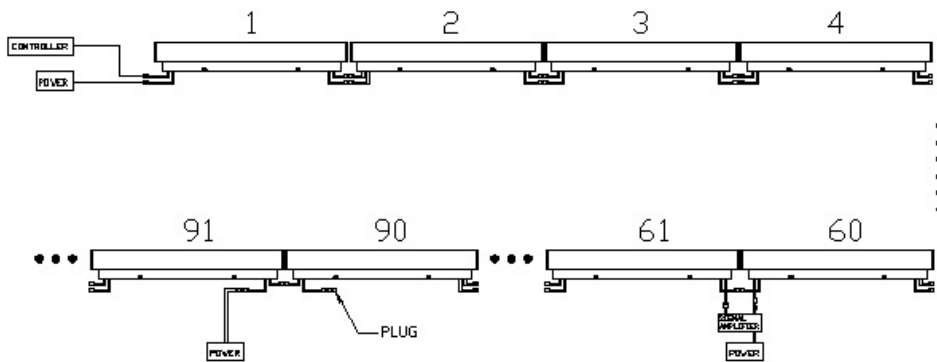


Rear plant



- A) Power switch
- B) - Minus
- C) + Plus
- D) Function set
- E) Selectable display mode
- F) LCD screen
- G) DMX512 signal output
- H) DMX512 signal input
- I) Color-changing tube/ wall light signal output
- J) Power input (DC 9V- 12V)

D: Electrical Connection diagram



Plug---2pin female plug spigot

Description:

- Connect the first color-changing tube with led controller signal connector and put it through, the following color-changing tubes are to be connected with power supply in order;
- The signal amplifier must be used every other 60 pcs of color-changing tubes, the signal between 60X and 60X+1 (X stands for natural number) should be enhanced by the amplifier;
- The 90Xth color-changing tube(X stands for natural number) must be reconnected with power supply (100V-240V) and the power output should be stopped by P3. The power (240V/50Hz) and signal output connector for the last tube should be stopped by Terminator (1 pc 120Ω resistor inside) in order to prevent water. Each group of circuit can be connected with 1000 pcs color-changing tube (All disconnected interface should be connected with waterproof spigot, and all-joints should be used sealants)